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WGU C949 Pre-Assessment (New 2023/ 2024) Data Structures and Algorithms I| Questions and Verified Answers| 100% Correct| Grade A

Q:UESTION

Which data structure is used to store unordered items by mapping each item to a location in an array?

Answer:

Hash table

Q:UESTION

What is the advantage that a linked list has over an array?

Answer:

Grows and shrinks as needed

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Q:UESTION

What would be the best data structure for a hash table with simple chain- ing?

Answer:

A doubly linked list

Q:UESTION

How many leaf nodes does this tree have?

Answer:

Two

Q:UESTION

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What is the root node for this tree?

Answer:
Anne

Q:UESTION
What is the height of this tree?

Answer:
Two

Q:UESTION
Which data structure is the most dynamic in storing data items of varying lengths?

Answer:
List

Q:UESTION
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What is the resulting stack when the push(1) function is implemented on this stack yield?
8,9,3,5(top is 8)

Answer:
1,8,9,3,5

Q:UESTION
What will the peek() operation from this stack return?
8,9,3,5(top is 8)

Answer:
8

Q:UESTION

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